

POLYBUTADIENE RUBBER AND ITS COMPOSITION

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Abstract of JP 5194658 (A)

PURPOSE:To obtain the subject polybutadiene rubber, composed of a specific polybutadiene, excellent in dynamic characteristics, abrasion resistance, tensile strength, flex crack growth resistance and impact resilience and suitable as base treads, etc., of automotive tires. **CONSTITUTION:**The objective polybutadiene rubber is composed of (A) 10-25wt.% portion, having 0.5-4 reduced viscosity and insoluble in boiling n-hexane and (B) 90-75wt.% portion insoluble in boiling n-hexane in which (i) the weight-average molecular weight (Mw) is 300000-800000 and (ii) the toluene solution viscosity (η_{sp}/c) and the Mooney viscosity (ML) at 100 deg.C satisfy the relation of $3ML-30 \leq \eta_{sp}/c \leq 3ML+30$. Furthermore, a rubber composition excellent in runnability is obtained from $\eta_{sp}/c \geq 20$ wt.% objective polybutadiene rubber and natural rubber and/or one or more diene-based rubbers.

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